

A P P E N D I X A

DETAILED COST ESTIMATES FOR CASE STUDY SITES

APPENDIX A: DETAILED COST ESTIMATES

Appendix A contains detailed cost estimates for the case studies presented in Chapter Three. DC&E used the generic cost estimate tool included and described in Chapter Four to estimate a ball-park range of costs for each district. These cost estimates are approximate only, and are intended to provide other jurisdictions with a general sense of what comparable pedestrian-oriented neighborhoods cost to create and built.

A. Organization

Each case study cost estimate includes an overview worksheet that summarizes the costs by roadway in the district or other major element of the district (such as a pedestrian plaza). Each summary sheet also calculates a total linear foot cost (high and low) for all the pedestrian improvements contained in each pedestrian district case study. The overview worksheet is followed by one worksheet for each roadway or district element, which provides cost estimates for the pedestrian facilities present. The costs listed represent 2005 costs.

B. Assumptions

For each case study cost estimate, the basic roadway infrastructure was assumed to be in place; therefore, the estimates do not include the costs to build the roads themselves, sidewalks or curb and gutter in the estimates. A range of costs for each item located in the pedestrian district is provided as the exact model type and the actual costs are unknown or outdated.

The unit counts for the pedestrian facilities located in the districts are estimates only, based on fieldwork and an examination of aerial photographs of each neighborhood.

In addition, as described in Chapter Three, two of the case study sites (Hacienda Business Park and the Hercules Waterfront District) are places that have the potential to be good pedestrian districts, but have not yet become truly

walkable environments. In these instances, the case studies not only describe the existing pedestrian infrastructure found in these places, but provide recommendations and directions for future improvements. Therefore, the cost estimates for those two sites includes costs for the recommended future improvements contained in the case studies.

Finally, it is important to note that in each case study cost estimate, the greatest expense tends to be the installation of traffic signals at roadway intersections. The installation of traffic signals is typically driven by vehicular traffic demands and not pedestrian needs; therefore the actual costs to create a district with an effective and rich network of pedestrian facilities may be cheaper than these cost estimates suggest.

		Low	High
Adams Point Pedestrian District	24,222 LF		
Grand Avenue		\$3,207,110	\$5,214,780
Harrison Avenue		\$2,789,858	\$3,366,146
MacArthur		\$1,129,188	\$1,335,885
Bay Street		\$476,586	\$673,641
Orange Street		\$470,453	\$504,484
Euclid and Perkins		\$1,065,750	\$1,129,840
Van Buren and Adams		\$1,425,408	\$1,486,076
Lee Street		\$385,707	\$404,565
TOTAL ESTIMATED COST		\$10,950,059	\$14,115,417
COST PER LINEAR SQUARE FOOT		\$452	\$583

MTC Pedestrian Districts Study
Adams Point Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Grand Avenue: 4200 LF									
Pedestrian Infrastructure							\$1,525,000	\$2,839,600	
Crosswalk: Striping	1,600	LF	\$3	\$6	\$4,800	\$9,600			Standard striping
Pedestrian Push Button Treatments	28	EA	\$1,300	\$1,300	\$36,400	\$36,400			
Signalized Intersections	9	LS	\$125,000	\$250,000	\$1,125,000	\$2,250,000			
Wheelchair Ramps (including warning surface half domes)	32	EA	\$2,600	\$3,000	\$83,200	\$96,000			
Crosswalk Countdowns	9	LS	\$2,400	\$6,400	\$21,600	\$57,600			
Pedestrian-Level Street Lights	68	EA	\$3,000	\$5,000	\$204,000	\$340,000			Estimated at 100' apart along 3600LF of roadway, minus 5 standards at highway.
Standard Street Light (Cobra Head)	5	EA	\$10,000	\$10,000	\$50,000	\$50,000			
Pedestrian Amenities							\$686,800	\$756,800	
24" box Trees	240	EA	\$1,820	\$1,820	\$436,800	\$436,800			
60 Day Maintenance	2	LS	\$3,000	\$4,000	\$6,000	\$8,000			
Bus Shelter	8	EA	\$5,000	\$10,000	\$40,000	\$80,000			
Bus Concrete Pad	8	EA	\$6,500	\$6,500	\$52,000	\$52,000			
Trash Cans	40	EA	\$800	\$1,500	\$32,000	\$60,000			Estimated 2 per block
Tree Well	240	EA	\$500	\$500	\$120,000	\$120,000			
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***Cost Estimates based on 2005 prices

SF Square Foot
EA Each

LS Lump Sum
LF Linear Foot

MTC Pedestrian Districts Study
Adams Point Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Harrison Street: 3640 LF									
Pedestrian Infrastructure							\$1,446,040	\$1,834,480	
Crosswalk: Striping	480	LF	\$3	\$6	\$1,440	\$2,880			
Signage	24	EA	\$300	\$400	\$7,200	\$9,600			
Signalized Intersections	3	LS	\$125,000	\$250,000	\$375,000	\$750,000			
Wheelchair Ramps	24	EA	\$2,600	\$3,000	\$62,400	\$72,000			
Standard Street Light (Cobra Head)	100	EA	\$10,000	\$10,000	\$1,000,000	\$1,000,000			
Pedestrian Amenities									
							\$478,000	\$487,000	
24" box Trees	200	EA	\$1,820	\$1,820	\$364,000	\$364,000			Estimated at 50' apart, but fairly inconsistent over 5000LF
60 Day Maintenance	2	LS	\$3,000	\$4,000	\$6,000	\$8,000			
Trash Cans	10	EA	\$800	\$1,500	\$8,000	\$15,000			
Tree Well	200	EA	\$500	\$500	\$100,000	\$100,000			
Subtotals:							\$1,924,040	\$2,321,480	
10% Mobilization cost:							\$192,404	\$232,148	
20% Contingency:							\$384,808	\$464,296	
15% Design Fee:							\$288,606	\$348,222	
TOTAL ANTICIPATED COST							\$2,789,858	\$3,366,146	

***Cost Estimates based on 2005 prices

SF Square Foot
EA Each

LS Lump Sum
LF Linear Foot

MTC Pedestrian Districts Study
Adams Point Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Macarthur Blvd. 3200 LF									
Pedestrian Infrastructure							\$212,750	\$344,300	
Crosswalk: Striping	250	LF	\$3	\$6	\$750	\$1,500			
Signalized Intersections	1	LS	\$125,000	\$250,000	\$125,000	\$250,000			Grand Avenue and Oakland Ave.
Signage	2	EA	\$300	\$400	\$600	\$800			
Standard Street Light (Cobra Head)	5	EA	\$10,000	\$10,000	\$50,000	\$50,000			
Wheelchair Ramps (including warning surface half domes)	14	EA	\$2,600	\$3,000	\$36,400	\$42,000			
Pedestrian Amenities							\$566,000	\$577,000	
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			
Bus Concrete Pad	2	EA	\$6,500	\$6,500	\$13,000	\$13,000			
Bus Shelter	2	EA	\$5,000	\$10,000	\$10,000	\$20,000			
Planting along tree strip at the west side	60,000	SF	\$9	\$9	\$540,000	\$540,000			
Subtotals:							\$778,750	\$921,300	
10% Mobilization cost:							\$77,875	\$92,130	
20% Contingency:							\$155,750	\$184,260	
15% Design Fee:							\$116,813	\$138,195	
TOTAL ANTICIPATED COST							\$1,129,188	\$1,335,885	

***Cost Estimates based on 2005 prices

SF Square Foot LS Lump Sum
EA Each LF Linear Foot

MTC Pedestrian Districts Study
Adams Point Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Bay Street: 750 LF									
Pedestrian Infrastructure							\$278,500	\$413,400	
Crosswalk: Striping	300	LF	\$3	\$6	\$900	\$1,800			Standard
Landscaped Median	670	LF	\$200	\$400	\$134,000	\$268,000			
Signage	12	EA	\$300	\$300	\$3,600	\$3,600			Stop signs and directional
Standard Street Light (Cobra Head)	14	EA	\$10,000	\$10,000	\$140,000	\$140,000			Assumed 1 every 100 LF on both sides of street for 750 LF
Pedestrian Amenities							\$50,180	\$51,180	
24" Box Trees	24	EA	\$1,820	\$1,820	\$43,680	\$43,680			Counted on aerial actual number of trees in median and sidewalk
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			
Tree Well	7	EA	\$500	\$500	\$3,500	\$3,500			
							Subtotals:	\$328,680	\$464,580
							10% Mobilization cost:	\$32,868	\$46,458
							20% Contingency:	\$65,736	\$92,916
							15% Design Fee:	\$49,302	\$69,687
TOTAL ANTICIPATED COST								\$476,586	\$673,641

***Cost Estimates based on 2005 prices

SF Square Foot LS Lump Sum
EA Each LF Linear Foot

MTC Pedestrian Districts Study
Adams Point Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Orange Street: 1800 LF									
Pedestrian Infrastructure							\$265,770	\$288,240	
Bulbout (LF curb, sf Concrete, wheelchair access, demo)	1	EA	\$15,000.00	\$25,000.00	\$15,000	\$25,000			Pork Chop at Harrison Intersection
Crosswalk: Striping	290	LF	\$3	\$6	\$870	\$1,740			Standard
Signage	15	EA	\$300	\$400	\$4,500	\$6,000			Stop sign
Speedbumps	3	EA	\$3,000	\$4,500	\$9,000	\$13,500			
Standard Street Light (Cobra Head)	20	EA	\$10,000	\$10,000	\$200,000	\$200,000			
Wheelchair Ramps	14	EA	\$2,600	\$3,000	\$36,400	\$42,000			
Pedestrian Amenities							\$58,680	\$59,680	
24" box Trees	24	EA	\$1,820	\$1,820	\$43,680	\$43,680			Estimated count from aerial
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			Est.sq footage of landscape area, tree maintenance over 1/2 mile of road
Tree Well	24	EA	\$500	\$500	\$12,000	\$12,000			Includes saw cut of 5' x5' hole, 2.5 cy amended soil, concrete demo, hauling
Subtotals:							\$324,450	\$347,920	
10% Mobilization cost:							\$32,445	\$34,792	
20% Contingency:							\$64,890	\$69,584	
15% Design Fee:							\$48,668	\$52,188	
TOTAL ANTICIPATED COST							\$470,453	\$504,484	

***Cost Estimates based on 2005 prices

SF Square Foot
EA Each

LS Lump Sum
LF Linear Foot

MTC Pedestrian Districts Study
Adams Point Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Euclid Avenue and Perkins Avenue: 5220 LF									
Pedestrian Infrastructure							\$735,000	\$779,200	
Crosswalk: Striping	600	LF	\$3	\$6	\$1,800	\$3,600			Standard
Signage	24	EA	\$300	\$400	\$7,200	\$9,600			Stop signs and other
Speedbumps	8	EA	\$3,000	\$4,500	\$24,000	\$36,000			
Standard Street Light (Cobra Head)	52	EA	\$10,000	\$10,000	\$520,000	\$520,000			Assumed standard street light one side of street every 100 LF
Wheelchair Ramps	70	EA	\$2,600	\$3,000	\$182,000	\$210,000			36 opportunities on Perkins, 34 opportunities on Euclid
Subtotals:							\$735,000	\$779,200	
10% Mobilization cost:							\$73,500	\$77,920	
20% Contingency:							\$147,000	\$155,840	
15% Design Fee:							\$110,250	\$116,880	
TOTAL ANTICIPATED COST							\$1,065,750	\$1,129,840	

***Cost Estimates based on 2005 prices

SF Square Foot
EA Each

LS Lump Sum
LF Linear Foot

MTC Pedestrian Districts Study
Adams Point Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Van Buren and Adams: 4212LF									
Pedestrian Infrastructure							\$491,240	\$507,280	
Crosswalk: Striping	280	LF	\$3	\$6	\$840	\$1,680			Standard
Signage	24	EA	\$300	\$400	\$7,200	\$9,600			
Standard Street Light (Cobra Head)	40	EA	\$10,000	\$10,000	\$400,000	\$400,000			Assumed one every 100 LF on one side of road
Wheelchair Ramps (including warning surface pavers)	32	EA	\$2,600	\$3,000	\$83,200	\$96,000			
Pedestrian Amenities							\$491,800	\$517,600	
24" box Trees	200	EA	\$1,820	\$1,820	\$364,000	\$364,000			Estimated every 40 LF on both sides of street
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			
Landscaped Median	124	LF	\$200	\$400	\$24,800	\$49,600			
Tree Well	200	EA	\$500	\$500	\$100,000	\$100,000			
Subtotals:							\$983,040	\$1,024,880	
10% Mobilization cost:							\$98,304	\$102,488	
20% Contingency:							\$196,608	\$204,976	
15% Design Fee:							\$147,456	\$153,732	
TOTAL ANTICIPATED COST							\$1,425,408	\$1,486,076	

***Cost Estimates based on 2005 prices

SF Square Foot
EA Each

LS Lump Sum
LF Linear Foot

MTC Pedestrian Districts Study
Adams Point Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Lee Street: 1200 LF (S322-S338 LF)									
Pedestrian Infrastructure							\$266,005	\$279,010	
Crosswalk: Striping	135	LF	\$3	\$6	\$405	\$810			Standard
Signage	8	EA	\$300	\$400	\$2,400	\$3,200			
Speedbumps	2	EA	\$3,000	\$4,500	\$6,000	\$9,000			
Standard Street Light (Cobra Head)	20	EA	\$10,000	\$10,000	\$200,000	\$200,000			
Wheelchair Ramps (including warning surface pavers)	22	EA	\$2,600	\$3,000	\$57,200	\$66,000			
Subtotals:							\$266,005	\$279,010	
10% Mobilization cost:							\$26,601	\$27,901	
20% Contingency:							\$53,201	\$55,802	
15% Design Fee:							\$39,901	\$41,852	
TOTAL ANTICIPATED COST							\$385,707	\$404,565	

		Low	High
Hercules Waterfront Pedstrian District		6,000 LF	
Railroad Avenue		\$2,465,145	\$2,905,510
Sycamore Avenue		\$762,642	\$871,786
Bay Trail		\$850,063	\$892,113
TOTAL ANTICIPATED COST		\$4,077,850	\$4,669,409
COST PER LINEAR SQUARE FOOT		\$680	\$778

MTC Pedestrian Districts Study
Hercules Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Railroad Avenue: 2100 LF									
Pedestrian Infrastructure							\$1,442,300	\$1,745,000	
Asphaltic Concrete	85,000	SF	\$9	\$9	\$765,000	\$765,000			
Chicanes	1	LS	\$15,000	\$35,000	\$15,000	\$35,000			
Concrete Curb and Gutter Installation	4,500	LF	\$30	\$40	\$135,000	\$180,000			
Concrete Paving Sidewalk (scored)	22,500	SF	\$8	\$10	\$180,000	\$225,000			Square foot cost of concrete for interior of sidewalk only
Pedestrian-Level Street Lights	90	EA	\$3,000	\$5,000	\$270,000	\$450,000			Estimated at 50' apart
Signage	15	EA	\$300	\$400	\$4,500	\$6,000			
Wheelchair Ramps (w/ warning surface half domes)	28	EA	\$2,600	\$3,000	\$72,800	\$84,000			
Pedestrian Amenities							\$257,800	\$258,800	
24" box Trees	140	EA	\$1,820	\$1,820	\$254,800	\$254,800			
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			
Subtotals:							\$1,700,100	\$2,003,800	
10% Mobilization cost:							\$170,010	\$200,380	
20% Contingency:							\$340,020	\$400,760	
15% Design Fee:							\$255,015	\$300,570	
TOTAL ANTICIPATED COST							\$2,465,145	\$2,905,510	

***Cost Estimates based on 2005 prices

SF Square Foot
EA Each

LS Lump Sum
LF Linear Foot

MTC Pedestrian Districts Study
Hercules Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Sycamore Avenue: 900LF									
Pedestrian Infrastructure							\$457,440	\$531,712	
Asphaltic Concrete	26,928	SF	\$9	\$9	\$242,352	\$242,352			Roadway asphalt
Concrete Curb and gutter Installation	1,600	LF	\$30	\$40	\$48,000	\$64,000			
Concrete Paving Sidewalk (scored)	6,336	SF	\$8	\$10	\$50,688	\$63,360			Square foot cost of concrete for interior of sidewalk only
Pedestrian-Level Street Lights	18	EA	\$3,000	\$5,000	\$54,000	\$90,000			
Wheelchair Ramps	24	EA	\$2,600	\$3,000	\$62,400	\$72,000			
Pedestrian Amenities							\$68,520	\$69,520	
24" box Trees	36	EA	\$1,820	\$1,820	\$65,520	\$65,520			
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			
							Subtotals:	\$525,960	\$601,232
							10% Mobilization cost:	\$52,596	\$60,123
							20% Contingency:	\$105,192	\$120,246
							15% Design Fee:	\$78,894	\$90,185
TOTAL ANTICIPATED COST								\$762,642	\$871,786

***Cost Estimates based on 2005 prices

SF Square Foot
EA Each

LS Lump Sum
LF Linear Foot

MTC Pedestrian Districts Study
Hercules Case Study Cost Estimate

Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Bay Trail: 3000LF									
Pedestrian Infrastructure							\$561,250	\$567,750	
Asphaltic Concrete	60,000	SF	\$9	\$9	\$540,000	\$540,000			Assumes 3,000 LF of Bay Trail adjacent and beyond study area.
Bollards	15	EA	\$500	\$750	\$7,500	\$11,250			
Crosswalk: Typical Striping	250	LF	\$3	\$6	\$750	\$1,500			
Wheelchair Ramps (w/ warning surface half domes)	5	EA	\$2,600	\$3,000	\$13,000	\$15,000			
Pedestrian Amenities									
							\$25,000	\$47,500	
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			Est on sq footage of landscape area, tree maintenance over 1/2 mile of road.
Bench (6' Wide, includes installation)	10	EA	\$1,500	\$3,000	\$15,000	\$30,000			
Bike Racks (including installation)	5	EA	\$600	\$1,200	\$3,000	\$6,000			
Trash Cans	5	EA	\$800	\$1,500	\$4,000	\$7,500			
Subtotals:							\$586,250	\$615,250	
10% Mobilization cost:							\$58,625	\$61,525	
20% Contingency:							\$117,250	\$123,050	
15% Design Fee:							\$87,938	\$92,288	
TOTAL ANTICIPATED COST							\$850,063	\$892,113	

***Cost Estimates based on 2005 prices

SF Square Foot
EA Each

LS Lump Sum
LF Linear Foot

		Low	High
Telegraph Avenue Pedestrian District Study		5800 LF	
Telegraph Avenue	\$2,099,925	\$3,167,473	
Bancroft Avenue	\$1,716,655	\$2,021,010	
Durant Avenue	\$552,595	\$759,075	
Channing Way	\$355,453	\$375,666	
Haste Street	\$354,670	\$374,100	
Dwight Way	\$420,645	\$444,280	
TOTAL ANTICIPATED COST		\$5,499,943	\$7,141,604
COST PER LINEAR SQUARE FOOT		\$948	\$1,231

MTC Pedestrian Districts Study
Cost Estimating Template

Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Telegraph Avenue: 1360 LF									
Pedestrian Infrastructure							\$971,000	\$1,636,000	
Automatic Pedestrian Detection	20	EA	\$500	\$1,000	\$10,000	\$20,000			
Crosswalk Countdowns	5	LS	\$2,400	\$6,400	\$12,000	\$32,000			
Pedestrian Push Button Treatments	20	EA	\$1,300	\$1,300	\$26,000	\$26,000			
Signage	20	EA	\$300	\$400	\$6,000	\$8,000			
Signalized Intersections	5	LS	\$125,000	\$250,000	\$625,000	\$1,250,000			Per intersection
Standard Street Light (Cobra Head)	24	EA	\$10,000	\$10,000	\$240,000	\$240,000			6 lights per block for 4 blocks
Wheelchair Ramps (w/ warning surface half domes)	20	EA	\$2,600	\$3,000	\$52,000	\$60,000			
Pedestrian Amenities							\$477,224	\$548,464	
24" box Trees	112	EA	\$1,820	\$1,820	\$203,840	\$203,840			20 trees per block for 4 blocks
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			
Bike Racks (including installation)	8	EA	\$600	\$1,200	\$4,800	\$9,600			
Bus Concrete Pad	4	EA	\$6,500	\$6,500	\$26,000	\$26,000			
Bus Shelter	4	EA	\$5,000	\$10,000	\$20,000	\$40,000			
Crosswalk: Permeable Paving- Brick	2,048	SF	\$13	\$13	\$26,624	\$26,624			
Newsracks	8	EA	\$4,000	\$6,000	\$32,000	\$48,000			Includes a bank of 4-6 newspaper racks. 2 per block
Street Pole Banners	24	EA	\$400	\$600	\$9,600	\$14,400			Assumes standard street light pole already installed cost includes brackets and 2 banners
Trash Cans	24	EA	\$800	\$1,500	\$19,200	\$36,000			6 per block
Tree Grates includes frame (4'x4')	112	EA	\$680	\$750	\$76,160	\$84,000			
Tree Well	112	EA	\$500	\$500	\$56,000	\$56,000			
Subtotals:							\$1,448,224	\$2,184,464	
10% Mobilization cost:							\$144,822	\$218,446	
20% Contingency:							\$289,645	\$436,893	
15% Design Fee:							\$217,234	\$327,670	
TOTAL ANTICIPATED COST							\$2,099,925	\$3,167,473	

***Cost Estimates based on 2005 prices

SF Square Foot
EA Each

LS Lump Sum
LF Linear Foot

MTC Pedestrian Districts Study
Telegraph Avenue Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Bancroft Avenue: 1800LF									
Pedestrian Infrastructure							\$895,400	\$1,053,600	
Automatic Pedestrian Detection	2	EA	\$500	\$1,000	\$1,000	\$2,000			
Crosswalk Countdowns	1	LS	\$2,400	\$6,400	\$2,400	\$6,400			
Crosswalk (In Pavement Flashers)	1	LS	\$100,000	\$120,000	\$100,000	\$120,000			
Signage (Post and Standard Sign vs. High Visibility)	18	EA	\$300	\$400	\$5,400	\$7,200			
Signalized Intersections	1	LS	\$125,000	\$250,000	\$125,000	\$250,000			
Standard Street Light (Cobra Head)	62	EA	\$10,000	\$10,000	\$620,000	\$620,000			Poles approx. every 80'
Wheelchair Ramps	16	EA	\$2,600	\$3,000	\$41,600	\$48,000			
Pedestrian Amenities									
							\$288,500	\$340,200	
24" box Trees	80	EA	\$1,820	\$1,820	\$145,600	\$145,600			Estimated every 30' but fairly inconsistent.
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			
Bike Racks (including installation)	16	EA	\$600	\$1,200	\$9,600	\$19,200			2 per block
Bus Concrete Pad	3	EA	\$6,500	\$6,500	\$19,500	\$19,500			
Bus Shelter	3	EA	\$5,000	\$10,000	\$15,000	\$30,000			
Bollards	10	EA	\$500	\$750	\$5,000	\$7,500			
Crosswalk: Permeable Paving- Brick	400	SF	\$13	\$13	\$5,200	\$5,200			
Street Pole Banners	62	EA	\$400	\$600	\$24,800	\$37,200			Assumes standard street light pole already installed cost includes brackets and 2 banners
Trash Cans	8	EA	\$800	\$1,500	\$6,400	\$12,000			
Tree Grates includes frame (4'x4')	80	EA	\$680	\$750	\$54,400	\$60,000			
Subtotals:							\$1,183,900	\$1,393,800	
10% Mobilization cost:							\$118,390	\$139,380	
20% Contingency:							\$236,780	\$278,760	
15% Design Fee:							\$177,585	\$209,070	
TOTAL ANTICIPATED COST							\$1,716,655	\$2,021,010	

***Cost Estimates based on 2005 prices

SF Square Foot LS Lump Sum
EA Each LF Linear Foot

MTC Pedestrian Districts Study
Telegraph Avenue Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Durant Avenue: 660LF									
Pedestrian Infrastructure							\$244,000	\$375,800	
Crosswalk Countdowns	1	LS	\$2,400	\$6,400	\$2,400	\$6,400			
Pedestrian Push Button Treatments	2	EA	\$1,300	\$1,300	\$2,600	\$2,600			
Signage	12	EA	\$300	\$400	\$3,600	\$4,800			
Signalized Intersections	1	LA	\$125,000	\$250,000	\$125,000	\$250,000			
Standard Street Light (Cobra Head)	10	EA	\$10,000	\$10,000	\$100,000	\$100,000			Estimated 100'-120' apart on both sides of street.
Wheelchair Ramps (w/ warning surface half domes)	4	EA	\$2,600	\$3,000	\$10,400	\$12,000			
Pedestrian Amenities									
							\$137,100	\$147,700	
24" box Trees	40	EA	\$1,820	\$1,820	\$72,800	\$72,800			
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			
Bike Racks	2	EA	\$600	\$1,200	\$1,200	\$2,400			
Bus Concrete Pad	1	EA	\$6,500	\$6,500	\$6,500	\$6,500			
Trash Cans	8	EA	\$800	\$1,500	\$6,400	\$12,000			
Tree Grates includes frame (4'x4')	40	EA	\$680	\$750	\$27,200	\$30,000			
Tree Well	40	EA	\$500	\$500	\$20,000	\$20,000			
Subtotals:							\$381,100	\$523,500	
10% Mobilization cost:							\$38,110	\$52,350	
20% Contingency:							\$76,220	\$104,700	
15% Design Fee:							\$57,165	\$78,525	
TOTAL ANTICIPATED COST							\$552,595	\$759,075	

MTC Pedestrian Districts Study
Telegraph Avenue Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Channing Way: 660LF									
Pedestrian Infrastructure							\$114,540	\$117,880	
Crosswalk: Typical Striping (Zebra)	180	LF	\$3	\$6	\$540	\$1,080			
Signage	12	EA	\$300	\$400	\$3,600	\$4,800			
Standard Street Light (Cobra Head)	10	EA	\$10,000	\$10,000	\$100,000	\$100,000			Estimated 100'-120' apart on both sides of street.
Wheelchair Ramps	4	EA	\$2,600	\$3,000	\$10,400	\$12,000			
Pedestrian Amenities									
							\$130,600	\$141,200	
24" box Trees	40	EA	\$1,820	\$1,820	\$72,800	\$72,800			
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			
Bike Racks (including installation)	2	EA	\$600	\$1,200	\$1,200	\$2,400			
Trash Cans	8	EA	\$800	\$1,500	\$6,400	\$12,000			
Tree Grates includes frame (4'x4')	40	EA	\$680	\$750	\$27,200	\$30,000			
Tree Well	40	EA	\$500	\$500	\$20,000	\$20,000			
Subtotals:							\$245,140	\$259,080	
10% Mobilization cost:							\$24,514	\$25,908	
20% Contingency:							\$49,028	\$51,816	
15% Design Fee:							\$36,771	\$38,862	
TOTAL ANTICIPATED COST							\$355,453	\$375,666	

MTC Pedestrian Districts Study
Telegraph Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Haste Street: 660LF									
Pedestrian Infrastructure							\$114,000	\$116,800	
Signage (Post and Standard Sign vs. High Visibility)	12	EA	\$300	\$400	\$3,600	\$4,800			
Standard Street Light (Cobra Head)	10	EA	\$10,000	\$10,000	\$100,000	\$100,000			Estimated 100'-120' apart on both sides of street
Wheelchair Ramps (w/ warning surface half domes)	4	EA	\$2,600	\$3,000	\$10,400	\$12,000			
Pedestrian Amenities							\$130,600	\$141,200	
24" Box Trees	40	EA	\$1,820	\$1,820	\$72,800	\$72,800			
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			
Bike Racks	2	EA	\$600	\$1,200	\$1,200	\$2,400			
Trash Cans	8	EA	\$800	\$1,500	\$6,400	\$12,000			
Tree Grates includes frame (4'x4')	40	EA	\$680	\$750	\$27,200	\$30,000			
Tree Well	40	EA	\$500	\$500	\$20,000	\$20,000			
Subtotals:							\$244,600	\$258,000	
10% Mobilization cost:							\$24,460	\$25,800	
20% Contingency:							\$48,920	\$51,600	
15% Design Fee:							\$36,690	\$38,700	
							\$354,670	\$374,100	

Telegraph Avenue Case Study Cost Estimate

[illegible]

		Low	High
Fruitvale BART Station TOD Case Study			
	2330 LF		
International Avenue		\$4,067,446	\$6,748,286
12th Avenue		\$1,199,411	\$1,509,537
Avenida de la Fuente		\$510,052	\$677,643
Fruitvale Village		\$626,371	\$893,606
TOTAL ANTICIPATED COST		\$6,403,280	\$9,829,072
COST PER LINEAR SQUARE FOOT		\$2,748	\$4,218

MTC Pedestrian Districts Study
Fruitvale BART Station TOD Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
International Boulevard: 650LF									
Pedestrian Infrastructure							\$1,521,760	\$2,811,240	
Audible Pedestrian Crossing Cues	3	LS	\$10,400	\$10,400	\$31,200	\$31,200			
Automatic Pedestrian Detection	3	EA	\$500	\$1,000	\$1,500	\$3,000			
Bulbout (LF curb, sf Concrete, wheelchair access, demo)	8	EA	\$15,000.00	\$25,000.00	\$120,000	\$200,000			Based on lump sum cost for 6' wide bulbout extension, and 20' length.
Concrete Curb and Gutter Installation	624	LF	\$30	\$40	\$18,720	\$24,960			Installation for 312 LF of median (2 sides)
Concrete Paving (scored) Median	6,500	SF	\$8	\$10	\$52,000	\$65,000			312 LF of median 15' wide
Crosswalk Countdowns	8	LS	\$2,400	\$6,400	\$19,200	\$51,200			
Crosswalk: Typical Striping	380	LF	\$3	\$6	\$1,140	\$2,280			
Pedestrian-Level Street Lights	60	EA	\$3,000	\$5,000	\$180,000	\$300,000			
Pedestrian Push Button Treatments	16	EA	\$1,300	\$1,300	\$20,800	\$20,800			
Pedestrian Refuge Island	4	EA	\$8,000	\$15,000	\$32,000	\$60,000			Assumes curb and median approximately 6' wide
Signage	12	EA	\$300	\$400	\$3,600	\$4,800			
Signalized Intersections	8	LS	\$125,000	\$250,000	\$1,000,000	\$2,000,000			
Wheelchair Ramps	16	EA	\$2,600	\$3,000	\$41,600	\$48,000			
Pedestrian Amenities									
							\$1,283,375	\$1,842,750	
24" box Trees	85	EA	\$1,820	\$1,820	\$154,700	\$154,700			
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			
Bench (6' Wide, includes installation)	12	EA	\$1,500	\$3,000	\$18,000	\$36,000			Estimated 6 per block
Bike Racks (including installation)	8	EA	\$600	\$1,200	\$4,800	\$9,600			Estimated 4 per block
Bollards	210	EA	\$500	\$750	\$105,000	\$157,500			
Bus Concrete Pad	4	EA	\$6,500	\$6,500	\$26,000	\$26,000			
Bus Shelter	4	EA	\$5,000	\$10,000	\$20,000	\$40,000			
Crosswalk: Stamped Colored Concrete	78,000	SF	\$10	\$15	\$780,000	\$1,170,000			
Gateway Features	2	EA	\$12,000	\$24,000	\$24,000	\$48,000			
Seat Wall at Pedestrian Refuge Island	30	LF	\$185	\$225	\$5,550	\$6,750			
Trash Cans	18	EA	\$800	\$1,500	\$14,400	\$27,000			
Tree Grates includes frame (4'x4')	85	EA	\$680	\$750	\$57,800	\$63,750			
Tree Guards (Powder Coated)	85	EA	\$325	\$670	\$27,625	\$56,950			
Tree Well	85	EA	\$500	\$500	\$42,500	\$42,500			
Subtotals:							\$2,805,135	\$4,653,990	
10% Mobilization cost:							\$280,514	\$465,399	
20% Contingency:							\$561,027	\$930,798	
15% Design Fee:							\$420,770	\$698,099	
							\$4,067,446	\$6,748,286	

MTC Pedestrian Districts Study
Fruitvale BART Station TOD Cost Estimate

Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Avenida de la Fuente: 160LF									
Pedestrian Infrastructure							\$233,560	\$271,160	
Asphaltic Concrete (<i>Demo and Removal</i>)	8,800	SF	\$9	\$9	\$79,200	\$79,200			Roadway asphalt
Concrete Curb and Gutter Removal	320	LF	\$60	\$60	\$19,200	\$19,200			
Concrete Paving Sidewalk (scored) colored	8,800	SF	\$8	\$10	\$70,400	\$88,000			Square foot cost of concrete for interior of sidewalk only
Concrete Sidewalks (<i>Demo and Removal</i>)	1,600	SF	\$20	\$20	\$32,000	\$32,000			Crosswalk includes concrete treatment
Pedestrian-Level Street Lights	10	EA	\$3,000	\$5,000	\$30,000	\$50,000			
Pedestrian Push Button Treatments	2	EA	\$1,300	\$1,300	\$2,600	\$2,600			
Wheelchair Ramps	2	EA	\$80	\$80	\$160	\$160			
Pedestrian Amenities							\$118,200	\$196,180	
24" box Trees	12	EA	\$1,820	\$1,820	\$21,840	\$21,840			
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			
Bench (6' Wide, includes installation)	25	EA	\$1,500	\$3,000	\$37,500	\$75,000			Estimated 2 benches every 25' on both sides of street
Bike Racks (including installation)	4	EA	\$600	\$1,200	\$2,400	\$4,800			Estimated 4 per block
Bollards	10	EA	\$500	\$750	\$5,000	\$7,500			
Gateway Features	2	EA	\$12,000	\$24,000	\$24,000	\$48,000			
Trash Cans	8	EA	\$800	\$1,500	\$6,400	\$12,000			
Tree Grates includes frame (4'x4')	12	EA	\$680	\$750	\$8,160	\$9,000			
Tree Guards (Powder Coated)	12	EA	\$325	\$670	\$3,900	\$8,040			
Tree Well	12	EA	\$500	\$500	\$6,000	\$6,000			
Subtotals:							\$351,760	\$467,340	
10% Mobilization cost:							\$35,176	\$46,734	
20% Contingency:							\$70,352	\$93,468	
15% Design Fee:							\$52,764	\$70,101	
TOTAL ANTICIPATED COST							\$510,052	\$677,643	

***Cost Estimates based on 2005 prices

SF Square Foot
EA Each

LS Lump Sum
LF Linear Foot

MTC Pedestrian Districts Study
Fruitvale BART Station TOD Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
12th Street: 1200LF									
Pedestrian Infrastructure							\$555,180	\$732,860	
Bulbout	4	EA	\$15,000	\$25,000	\$60,000	\$100,000			Based on lump sum cost for 6' wide bulbout extension, and 20' length.
Crosswalk: Typical Striping	360	LF	\$3	\$6	\$1,080	\$2,160			
Crosswalk Countdowns	1	LS	\$2,400	\$6,400	\$2,400	\$6,400			
Signage	12	EA	\$300	\$400	\$3,600	\$4,800			
Signalized Intersections	1	LS	\$125,000	\$250,000	\$125,000	\$250,000			
Standard Street Light (Cobra Head)	32	EA	\$10,000	\$10,000	\$320,000	\$320,000			
Stop Signs (per sign)	5	EA	\$300	\$300	\$1,500	\$1,500			
Wheelchair Ramps	16	EA	\$2,600	\$3,000	\$41,600	\$48,000			
Widened Sidewalks	0	LF	\$80	\$80	\$0	\$0			Includes demolition cost for curb removal, replacement and concrete for 3 SF of sidewalk
Pedestrian Amenities							\$272,000	\$308,200	
24" box Trees	80	EA	\$1,820	\$1,820	\$145,600	\$145,600			
Bollards	12	EA	\$500	\$750	\$6,000	\$9,000			
Tree Grates includes frame (4'x4')	80	EA	\$680	\$750	\$54,400	\$60,000			
Tree Guards (Powder Coated)	80	EA	\$325	\$670	\$26,000	\$53,600			
Tree Well	80	EA	\$500	\$500	\$40,000	\$40,000			
Subtotals:							\$827,180	\$1,041,060	
10% Mobilization cost:							\$82,718	\$104,106	
20% Contingency:							\$165,436	\$208,212	
15% Design Fee:							\$124,077	\$156,159	
TOTAL ANTICIPATED COST							\$1,199,411	\$1,509,537	

Fruitvale BART Station TOD Cost Estimate

[illegible]

***Cost Estimates based on 2005 prices

EA Each

LF Linear Foot

		Low	High
San Pablo Avenue Pedestrian District Study			
	2,400 LF		
San Pablo Avenue		\$2,912,348	\$4,761,115
TOTAL ANTICIPATED COST		\$2,912,348	\$4,761,115
COST PER LINEAR SQUARE FOOT		\$1,213	\$1,984

MTC Pedestrian Districts Study
San Pablo Avenue Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
San Pablo Avenue: 2400 LF									
Pedestrian Infrastructure							\$1,343,228	\$2,138,756	
Audible Pedestrian Crossing Cues (Per Intersection)	6	LS	\$10,400	\$10,400	\$62,400	\$62,400			
Crosswalk Countdowns	6	LS	\$2,400	\$6,400	\$14,400	\$38,400			
Crosswalk: Typical Striping	1,176	LF	\$3	\$6	\$3,528	\$7,056			
Pedestrian Push Button Treatments	14	EA	\$400	\$1,000	\$5,600	\$14,000			
Pedestrian Refuge Island	1	EA	\$8,000	\$15,000	\$8,000	\$15,000			Assumes curb and median approximately 6' wide
Signage	26	EA	\$300	\$400	\$7,800	\$10,400			
Signalized Intersections	6	LS	\$125,000	\$250,000	\$750,000	\$1,500,000			
Standard Street Light (Cobra Head)	40	EA	\$10,000	\$10,000	\$400,000	\$400,000			1 every 100' for 2000 LF of road
Wheelchair Ramps (including warning surface raised domes)	61	EA	\$1,500	\$1,500	\$91,500	\$91,500			
Pedestrian Amenities									
							\$897,040	\$1,523,640	
24" Box Trees	97	EA	\$1,820	\$1,820	\$176,540	\$176,540			Counted from aerial 97 trees (approx. 1 tree every 50'-60')
60 Day Maintenance	1	LS	\$4,000	\$8,000	\$4,000	\$8,000			
Bench (6' Wide, includes installation)	12	EA	\$1,500	\$3,000	\$18,000	\$36,000			Estimated 2 per block
Bike Racks (including installation)	12	EA	\$600	\$1,200	\$7,200	\$14,400			Estimated 2 per block
Bus Concrete Pad	2	EA	\$6,500	\$6,500	\$13,000	\$13,000			
Bus Shelters	2	EA	\$5,000	\$10,000	\$10,000	\$20,000			Located at San Pablo and University Avenue
Crosswalk: Permeable Paving- Brick	1,680	SF	\$10	\$10	\$16,800	\$16,800			84 LF at 10' Wide, 2 Crosswalks
Landscaped Median	2,751	LF	\$200	\$400	\$550,200	\$1,100,400			
Newsracks (including installation)	6	EA	\$4,000	\$6,000	\$24,000	\$36,000			Estimated 1 per block
Trash Cans (including installation)	36	EA	\$800	\$1,500	\$28,800	\$54,000			Estimated 6 per block (1 at each corner 1 mid block)
Tree Well	97	EA	\$500	\$500	\$48,500	\$48,500			
Subtotals:							\$2,240,268	\$3,662,396	
10% Mobilization cost:							\$224,027	\$366,240	
20% Contingency:							\$448,054	\$732,479	
15% Contingency:							\$336,040	\$549,359	
TOTAL ANTICIPATED COST							\$2,912,348	\$4,761,115	

***Cost Estimates based on 2005 prices

		Low	High
San Jose Pedestrian District Study	7650 LF		
Ist Street		\$2,217,343	\$3,586,073
2nd Street		\$2,217,343	\$3,586,073
Paseo de San Antonio		\$692,079	\$998,899
South Market		\$2,223,575	\$3,109,641
TOTAL ANTICIPATED COST		\$7,350,340	\$11,280,687
COST PER LINEAR SQUARE FOOT		\$961	\$1,475

MTC Pedestrian Districts Study
San Jose Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
1st Street: 2250 LF:									
Pedestrian Infrastructure							\$1,063,532	\$1,848,664	
Concrete Curb and gutter Installation (for VTA island)	2,400	LF	\$30	\$40	\$72,000	\$96,000			
Concrete Paving Sidewalk (scored)	12,000	SF	\$8	\$10	\$96,000	\$120,000			
Crosswalk Countdowns	4	LS	\$2,400	\$6,400	\$9,600	\$25,600			
Crosswalk: Typical Striping	444	LF	\$3	\$6	\$1,332	\$2,664			
Pedestrian-Level Street Lights	106	EA	\$3,000	\$5,000	\$318,000	\$530,000			Approximated 30' apart
Pedestrian Push Button Treatments	16	EA	\$1,300	\$1,300	\$20,800	\$20,800			
Signage (Post and Standard Sign vs. High Visibility)	14	EA	\$300	\$400	\$4,200	\$5,600			
Signalized Intersections	4	LS	\$125,000	\$250,000	\$500,000	\$1,000,000			
Wheelchair Ramps (w/ warning surface half domes)	16	EA	\$2,600	\$3,000	\$41,600	\$48,000			
Pedestrian Amenities									
							\$465,670	\$624,490	
24" Box Trees	146	EA	\$1,820	\$1,820	\$265,720	\$265,720			Trees every 30' (3 rows for 1100LF/ 2 rows for 560LF)
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			
Bench (6' Wide, includes installation)	32	EA	\$1,500	\$3,000	\$48,000	\$96,000			Approximated 2 every 200'
Bike Racks (including installation)	8	EA	\$600	\$1,200	\$4,800	\$9,600			Approximated 1 every 400'
Bollards	25	EA	\$500	\$750	\$12,500	\$18,750			
Bus Concrete Pad	2	EA	\$6,500	\$6,500	\$13,000	\$13,000			
Transit Shelter	2	EA	\$5,000	\$10,000	\$10,000	\$20,000			
Information Kiosks	4	EA	\$1,500	\$3,000	\$6,000	\$12,000			
Street Pole Banners	106	EA	\$400	\$600	\$42,400	\$63,600			Assumes standard street light pole includes brackets and 2 banners.
Trash Cans	16	EA	\$800	\$1,500	\$12,800	\$24,000			Approximated 1 every 200'
Tree Guards (Special Aluminum)	146	EA	\$325	\$670	\$47,450	\$97,820			Special Aluminum Circle design acts as bench, tree guard, and bike rack.
Subtotals:							\$1,529,202	\$2,473,154	
10% Mobilization cost:							\$152,920	\$247,315	
20% Contingency:							\$305,840	\$494,631	
15% Design Fee:							\$229,380	\$370,973	
TOTAL ANTICIPATED COST							\$2,217,343	\$3,586,073	

MTC Pedestrian Districts Study
San Jose Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
2nd Street: 1800 LF									
Pedestrian Infrastructure							\$1,063,532	\$1,848,664	
Concrete Curb and gutter Installation (for VTA island)	2,400	LF	\$30	\$40	\$72,000	\$96,000			
Concrete Paving Sidewalk (scored)	12,000	SF	\$8	\$10	\$96,000	\$120,000			
Crosswalk Countdowns	4	LS	\$2,400	\$6,400	\$9,600	\$25,600			
Crosswalk: Typical Striping	444	LF	\$3	\$6	\$1,332	\$2,664			
Pedestrian-Level Street Lights	106	EA	\$3,000	\$5,000	\$318,000	\$530,000			Approximated 30' apart
Pedestrian Push Button Treatments	16	EA	\$1,300	\$1,300	\$20,800	\$20,800			
Signage	14	EA	\$300	\$400	\$4,200	\$5,600			
Signalized Intersections	4	EA	\$125,000	\$250,000	\$500,000	\$1,000,000			
Wheelchair Ramps (w/ warning surface half domes)	16	EA	\$2,600	\$3,000	\$41,600	\$48,000			
Pedestrian Amenities									
							\$465,670	\$624,490	
24" box Trees	146	EA	\$1,820	\$1,820	\$265,720	\$265,720			Trees every 30' (3 rows for 1100LF/ 2 rows for 560LF)
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			
Bench (6' Wide, includes installation)	32	EA	\$1,500	\$3,000	\$48,000	\$96,000			Approximated 2 every 200'
Bike Racks (including installation)	8	EA	\$600	\$1,200	\$4,800	\$9,600			Approximated 1 every 400'
Bollards	25	EA	\$500	\$750	\$12,500	\$18,750			
Bus Concrete Pad	2	EA	\$6,500	\$6,500	\$13,000	\$13,000			
Transit Shelter	2	EA	\$5,000	\$10,000	\$10,000	\$20,000			
Information kiosks	4	EA	\$1,500	\$3,000	\$6,000	\$12,000			
Street Pole Banners	106	EA	\$400	\$600	\$42,400	\$63,600			Assumes standard street light pole includes brackets and 2 banners.
Trash Cans	16	EA	\$800	\$1,500	\$12,800	\$24,000			Approximated 1 every 200'
Tree Guards (Special Aluminum)	146	EA	\$325	\$670	\$47,450	\$97,820			Special Aluminum Circle design acts as bench, tree guard, and bike rack.
Subtotals:							\$1,529,202	\$2,473,154	
10% Mobilization cost:							\$152,920	\$247,315	
20% Contingency:							\$305,840	\$494,631	
15% Design Fee:							\$229,380	\$370,973	
TOTAL ANTICIPATED COST							\$2,217,343	\$3,586,073	

MTC Pedestrian Districts Study
San Jose Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Paseo de San Antonio 1000LF									
Pedestrian Infrastructure							\$244,200	\$326,000	
Bollards	20	EA	\$500	\$750	\$10,000	\$15,000			
Concrete Valley Gutter Installation	400	LF	\$30	\$40	\$12,000	\$16,000			
Concrete Paving Sidewalk (scored)	21,500	SF	\$8	\$10	\$172,000	\$215,000			Square foot cost of concrete for interior of sidewalk only
Pedestrian-Level Lights	14	EA	\$3,000	\$5,000	\$42,000	\$70,000			
Signage (Post and Standard Sign vs. High Visibility)	10	EA	\$300	\$400	\$3,000	\$4,000			
Wheelchair Ramps (w/ warning surface half domes)	2	EA	\$2,600	\$3,000	\$5,200	\$6,000			
Pedestrian Amenities									
							\$233,096	\$362,896	
24" box Trees	18	EA	\$1,820	\$1,820	\$32,760	\$32,760			Assumes trees in outskirts of road only
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			Est sq footage of landscape area and tree maintenance costs over 1/2 mile of road.
Bench (6' Wide, includes installation)	42	EA	\$1,500	\$3,000	\$63,000	\$126,000			
Bike Racks (including installation)	10	EA	\$600	\$1,200	\$6,000	\$12,000			
Crosswalk: Permeable Paving- Brick	672	SF	\$13	\$13	\$8,736	\$8,736			84 LF at 8' wide
Gateway Features and Public Art	3	EA	\$12,000	\$24,000	\$36,000	\$72,000			
Seat Wall	400	LF	\$185	\$225	\$74,000	\$90,000			
Street Pole Banners	4.0	EA	\$400	\$600	\$1,600	\$2,400			Assumes standard street light pole includes brackets and 2 banners.
Trash Cans	10	EA	\$800	\$1,500	\$8,000	\$15,000			
Subtotals:							\$477,296	\$688,896	
10% Mobilization cost:							\$47,730	\$68,890	
20% Contingency:							\$95,459	\$137,779	
15% Design Fee:							\$71,594	\$103,334	
TOTAL ANTICIPATED COST							\$692,079	\$998,899	

MTC Pedestrian Districts Study
San Jose Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
South Market Street: 2600 LF									
Pedestrian Infrastructure							\$605,800	\$1,130,400	
Audible Pedestrian Crossing Cues (Per Intersection)	4	LS	\$10,400	\$10,400	\$41,600	\$41,600			
Crosswalk Countdowns	4	LS	\$2,400	\$6,400	\$9,600	\$25,600			
Crosswalk: Typical Striping	600	LF	\$3	\$6	\$1,800	\$3,600			
Pedestrian Push Button Treatments	12	EA	\$1,300	\$1,300	\$15,600	\$15,600			
Signage	20	EA	\$300	\$400	\$6,000	\$8,000			
Signalized Intersections	4	LS	\$125,000	\$250,000	\$500,000	\$1,000,000			
Wheelchair Ramps	12	EA	\$2,600	\$3,000	\$31,200	\$36,000			
Pedestrian Amenities							\$927,700	\$1,014,180	
24" box Trees	132	EA	\$1,820	\$1,820	\$240,240	\$240,240			Assumes 2640 LF of street trees at 40' apart 2 sides of street only even when split.
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			
Bollards	50	EA	\$500	\$750	\$25,000	\$37,500			
Standard Street Light (Cobra Head)	44	EA	\$10,000	\$10,000	\$440,000	\$440,000			
Trash Cans	26	EA	\$800	\$1,500	\$20,800	\$39,000			Trash can every 200LF on both sides of street
Tree Grates includes frame (4'x4')	132	EA	\$680	\$750	\$89,760	\$99,000			
Tree Guards (Powder Coated)	132	EA	\$325	\$670	\$42,900	\$88,440			
Tree Well	132	EA	\$500	\$500	\$66,000	\$66,000			
Subtotals:							\$1,533,500	\$2,144,580	
10% Mobilization cost:							\$153,350	\$214,458	
20% Contingency:							\$306,700	\$428,916	
15% Design Fee:							\$230,025	\$321,687	
TOTAL ANTICIPATED COST							\$2,223,575	\$3,109,641	

***Cost Estimates based on 2005 prices

SF Square Foot
EA Each

LS Lump Sum
LF Linear Foot

	Low	High
Santa Rosa Pedestrian District Study 5000 LF		
4th Street	\$2,194,785	\$3,393,421
Mendocino Ave	\$2,074,805	\$3,254,438
Prince Memorial	\$1,300,940	\$1,735,070
TOTAL ESTIMATED COST	\$5,570,530	\$8,382,929
COST PER LINEAR SQUARE FOOT	\$1,114	\$1,677

MTC Pedestrian Districts Study
Santa Rosa Case Study
Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
4th Street: 1600 LF									
Pedestrian Infrastructure							\$1,110,445	\$1,853,690	
Audible Pedestrian Crossing Cues (Per Intersection)	4	LS	\$10,400	\$10,400	\$41,600	\$41,600			Assumes one at each corner of intersection (8 per intersection)
Bulbout	12	EA	\$15,000.00	\$25,000.00	\$180,000	\$300,000			Costs increases with infrastructure implications. Based on lump sum cost for 6' wide bulbout extension, and 20' length.
Crosswalk: Typical Striping	15	LF	\$3	\$6	\$45	\$90			2 stripes vs. Ladder stripes
Pedestrian-Level Street Lights	56	EA	\$3,000	\$5,000	\$168,000	\$280,000			Estimate one every 50'
Pedestrian Push Button Treatments	32	EA	\$1,300	\$1,300	\$41,600	\$41,600			
Signage	16	EA	\$300	\$400	\$4,800	\$6,400			Assumes new post is needed in sidewalk and installation
Signalized Intersections	4	EA	\$125,000	\$250,000	\$500,000	\$1,000,000			Estimate depends on size of street, and type of signal
Wheelchair Ramps (w/ warning surface half domes)	24	EA	\$2,600	\$3,000	\$62,400	\$72,000			Includes demolition costs and repaving asphalt at cuts.
Widened Sidewalks	1,400	LF	\$80	\$80	\$112,000	\$112,000			Includes demolition cost for curb removal, replacement and concrete for 3 SF of sidewalk
Pedestrian Amenities							\$403,200	\$486,600	
24" box Trees	100	EA	\$1,820	\$1,820	\$182,000	\$182,000			Estimated one tree every 30 LF
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			Estimate based on square footage of landscape area and tree maintenance of costs over 1/2 mile of road.
Bench (6' Wide, includes installation)	12	EA	\$1,500	\$3,000	\$18,000	\$36,000			Estimate 2 every block
Bike Racks (including installation)	18	EA	\$600	\$1,200	\$10,800	\$21,600			6 per block
Bollards	40	EA	\$500	\$750	\$20,000	\$30,000			
Crosswalk: Permeable Paving- Brick	1,000	SF	\$13	\$13	\$13,000	\$13,000			Includes demo of existing asphaltic concrete and aggregate base.
Gateway Features/Public Art	2	EA	\$12,000	\$24,000	\$24,000	\$48,000			
Trash Cans	18	EA	\$800	\$1,500	\$14,400	\$27,000			Estimate 6 per block
Tree Grates includes frame (4'x4')	100	EA	\$680	\$750	\$68,000	\$75,000			
Tree Well	100	EA	\$500	\$500	\$50,000	\$50,000			Includes saw cut of 5' x5' hole, 2.5 cy amended soil, and concrete demo and hauling
Planters (concrete with soil and plants)	18	EA	\$1,000.00	\$2,000.00	\$18,000	\$36,000			Estimate 6 per block
Subtotals:							\$1,513,645	\$2,340,290	
10% Mobilization cost							\$151,365	\$234,029	
20% Contingency							\$302,729	\$468,058	
15% Design Fee							\$227,047	\$351,044	
TOTAL ANTICIPATED COST							\$2,194,785	\$3,393,421	

***Cost Estimates based on 2005 prices

SF Square Foot LS Lump Sum
EA Each LF Linear Foot

MTC Pedestrian Districts Study
Santa Rosa Case Study Coast Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Mendocino Avenue: 2400LF									
Pedestrian Infrastructure							\$885,700	\$1,565,400	
Audible Pedestrian Crossing Cues (Per Intersection)	4	LS	\$10,400	\$10,400	\$41,600	\$41,600			
Crosswalk: Typical Striping	700	LF	\$3	\$6	\$2,100	\$4,200			
Pedestrian-Level Street Lights	82	EA	\$3,000	\$5,000	\$246,000	\$410,000			
Pedestrian Push Button Treatments	8	EA	\$1,300	\$1,300	\$10,400	\$10,400			
Signalized Intersections	4	LS	\$125,000	\$250,000	\$500,000	\$1,000,000			
Signage	8	EA	\$300	\$400	\$2,400	\$3,200			
Wheelchair Ramps (w/ warning surface half domes)	32	EA	\$2,600	\$3,000	\$83,200	\$96,000			
Pedestrian Amenities									
24" box Trees	136	EA	\$1,820	\$1,820	\$247,520	\$247,520			
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			
Crosswalk: Permeable Paving- Brick	800	SF	\$13	\$13	\$10,400	\$10,400			
Landscaped Median	270	LF	\$200	\$400	\$54,000	\$108,000			
Trash Cans	32	EA	\$800	\$1,500	\$25,600	\$48,000			Estimate 4 per block
Tree Grates includes frame (4'x4')	136	EA	\$680	\$750	\$92,480	\$102,000			
Tree Guards (Powder Coated)	136	EA	\$325	\$670	\$44,200	\$91,120			
Tree Well	136	EA	\$500	\$500	\$68,000	\$68,000			
Subtotals:							\$1,430,900	\$2,244,440	
10% Mobilization cost:							\$143,090	\$224,444	
20% Contingency:							\$286,180	\$448,888	
15% Design Fee:							\$214,635	\$336,666	
TOTAL ANTICIPATED COST:							\$2,074,805	\$3,254,438	

***Cost Estimates based on 2005 prices

SF Square Foot LS Lump Sum
EA Each LF Linear Foot

MTC Pedestrian Districts Study
Santa Rosa Case Study Cost Estimate

Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Prince Memorial: 1000 LF									
Pedestrian Infrastructure							\$307,200	\$389,600	
Asphaltic Concrete	20,000	SF	\$9	\$9	\$180,000	\$180,000			Roadway asphalt for 1000 LF (10' wide both sides of creek)
Pedestrian-Level Lights	40	EA	\$3,000	\$5,000	\$120,000	\$200,000			Estimates one every 50' both sides of creek
Signage	24	EA	\$300	\$400	\$7,200	\$9,600			
Pedestrian Amenities									
							\$590,000	\$807,000	
Bench (6' Wide, includes installation)	80	EA	\$1,500	\$3,000	\$120,000	\$240,000			Estimates one every 25'
Bike Racks (including installation)	20	EA	\$600	\$1,200	\$12,000	\$24,000			Estimates one every 100'
Bollards	24	EA	\$500	\$750	\$12,000	\$18,000			
Crosswalk: Stamped Colored Concrete	1,000	SF	\$10	\$15	\$10,000	\$15,000			Includes demo of existing asphaltic concrete and aggregate base.
Gateway Features (Public Art/Creek Overlooks)	5	EA	\$12,000	\$24,000	\$60,000	\$120,000			Public Artwork and creek overlook estimates 3 within study area
Planting at pathway	40,000	SF	\$9	\$9	\$360,000	\$360,000			Assumes planting along entire length of creek bed.
Trash Cans	20	EA	\$800	\$1,500	\$16,000	\$30,000			
Subtotals:							\$897,200	\$1,196,600	
10% Mobilization cost:							\$89,720	\$119,660	
20% Contingency:							\$179,440	\$239,320	
15% Design Fee:							\$134,580	\$179,490	
TOTAL ANTICIPATED COST							\$1,300,940	\$1,735,070	

***Cost Estimates based on 2005 prices

SF Square Foot LS Lump Sum
EA Each LF Linear Foot

		Low	High
Suisun City Pedestrian District Study		6100 LF	
Main Street		\$1,815,197	\$2,420,949
Kellogg Street		\$823,600	\$1,104,668
Waterfront Promenade		\$2,265,661	\$3,149,835
TOTAL ESTIMATED COST		\$4,904,458	\$6,675,452
COST PER LINEAR SQUARE FOOT		\$804	\$1,094

MTC Pedestrian Districts Study
Suison City Case Study
Cost Estimate

[illegible]

***Cost Estimates based on 2005 prices

SF Square Foot
EA Each

LS Lump Sum
LF Linear Foot

MTC Pedestrian Districts Study
Suisun City Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Kellogg Street: 10001.F									
Pedestrian Infrastructure							\$272,000	\$390,000	
Concrete Paving Sidewalk (scored and colored)	13,600	SF	\$8	\$10	\$108,800	\$136,000			Square foot cost of concrete for interior of sidewalk only
Pedestrian-Level Street Lights	42	EA	\$3,000	\$5,000	\$126,000	\$210,000			
Signage	20	EA	\$300	\$400	\$6,000	\$8,000			
Wheelchair Ramps	12	EA	\$2,600	\$3,000	\$31,200	\$36,000			
Pedestrian Amenities									
							\$296,000	\$371,840	
24" box Trees	56	EA	\$1,820	\$1,820	\$101,920	\$101,920			
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			Estimate based on square footage of landscape area and tree maintenance of costs over 1/2 mile of road
Benches or Sidewalk Furniture/Cafes Seating	18	EA	\$1,500	\$3,000	\$27,000	\$54,000			
Bike Racks (including installation)	6	EA	\$600	\$1,200	\$3,600	\$7,200			
Planting/Landscaping	5,000	SF	\$9	\$9	\$45,000	\$45,000			
Street Pole Banners	42	EA	\$400	\$600	\$16,800	\$25,200			Assumes standard street light pole already installed cost includes brackets and 2 banners
Trash Cans	18	EA	\$800	\$1,500	\$14,400	\$27,000			
Tree Grates includes frame (4'x4')	56	EA	\$680	\$750	\$38,080	\$42,000			
Tree Guards (Powder Coated)	56	EA	\$325	\$670	\$18,200	\$37,520			
Tree Well	56	EA	\$500	\$500	\$28,000	\$28,000			
Subtotals:							\$568,000	\$761,840	
10% Mobilization cost:							\$56,800	\$76,184	
20% Contingency:							\$113,600	\$152,368	
15% Design Fee:							\$85,200	\$114,276	
TOTAL ANTICIPATED COST							\$823,600	\$1,104,668	

***Cost Estimates based on 2005 prices

SF Square Foot LS Lump Sum
EA Each LF Linear Foot

MTC Pedestrian Districts Study
Suisun City Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Waterfront Promenade: 2600 LF (\$871-\$1211/LF)									
Pedestrian Infrastructure							\$682,200	\$937,800	
Concrete Curb and gutter Installation	2,600	LF	\$30	\$40	\$78,000	\$104,000			
Concrete Paving Sidewalk (seamed and colored)	46,800	SF	\$8	\$10	\$374,400	\$468,000			Square foot cost of concrete for interior of sidewalk only
Pedestrian-Level Lights	65	EA	\$3,000	\$5,000	\$195,000	\$325,000			One every 40 LF
Signage	12	EA	\$300	\$400	\$3,600	\$4,800			Assumes new post is needed in sidewalk and installation
Wheelchair Ramps (w/ warning surface half domes)	12	EA	\$2,600	\$3,000	\$31,200	\$36,000			Includes demolition costs and repaving asphalt at cuts
Pedestrian Amenities									
							\$880,325	\$1,234,500	
24" box Trees	65	EA	\$1,820	\$1,820	\$118,300	\$118,300			One every 40 LF
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			Estimate based on square footage of landscape area and tree maintenance of costs over 1/2 mile of road
Bench (6' Wide, includes installation)	86	EA	\$1,500	\$3,000	\$129,000	\$258,000			One every 30 LF
Bike Racks (including installation)	32	EA	\$600	\$1,200	\$19,200	\$38,400			One every 80 LF
Bollards	12	EA	\$500	\$750	\$6,000	\$9,000			
Gateway Features/Public Art/ Monument	3	EA	\$12,000	\$24,000	\$36,000	\$72,000			
Planting at Public Plaza	39,200	SF	\$9	\$9	\$352,800	\$352,800			
Trash Cans	32	EA	\$800	\$1,500	\$25,600	\$48,000			One every 80 LF
Tree Grates includes frame (4'x4')	65	EA	\$680	\$750	\$44,200	\$48,750			
Tree Guards (Powder Coated)	65	EA	\$325	\$670	\$21,125	\$43,550			
Tree Well	65	EA	\$500	\$500	\$32,500	\$32,500			Includes saw cut of 5' x5' hole, 2.5 cy amended soil, and concrete demo and hauling
Decorative Iron Railing	2,600	LF	\$26	\$42	\$67,600	\$109,200			
Stage/Amphitheatre	1	LS	\$25,000	\$100,000	\$25,000	\$100,000			Depends upon size and structure of amphitheater
Subtotals:							\$1,562,525	\$2,172,300	
10% Mobilization cost:							\$156,253	\$217,230	
20% Contingency:							\$312,505	\$434,460	
15% Design Fee:							\$234,379	\$325,845	
TOTAL ANTICIPATED COST							\$2,265,661	\$3,149,835	

***Cost Estimates based on 2005 prices

SF Square Foot
EA Each

LS Lump Sum
LF Linear Foot

		Low	High
UCSF Pedestrian District Study			
	3260 LF		
Parnassus Avenue	1600.0	\$1,456,018	\$2,269,685
Hillway Avenue	400.0	\$165,155	\$224,518
Third Avenue	480.0	\$211,439	\$285,969
Carl and Irving Streets	780.0	\$390,572	\$459,302
Pedestrian Passages	0.0	\$13,050	\$17,400
TOTAL ESTIMATED COST		\$2,236,234	\$3,256,874
COST PER LINEAR SQUARE FOOT		\$686	\$999

MTC Pedestrian Districts Study
UCSF Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Parnassus: 1600LF									
Pedestrian Infrastructure							\$627,200	\$1,091,400	
Audible Pedestrian Crossing Cues (Per Intersection)	2	LS	\$10,400	\$10,400	\$20,800	\$20,800			
Crosswalk Countdowns	2	LS	\$2,400	\$6,400	\$4,800	\$12,800			
Crosswalk: Typical Striping	400	LF	\$3	\$6	\$1,200	\$2,400			
Pedestrian-Level Street Lights	94	EA	\$3,000	\$5,000	\$282,000	\$470,000			
Pedestrian Push Button Treatments	4	EA	\$1,300	\$1,300	\$5,200	\$5,200			
Pedestrian Refuge Island	1	EA	\$8,000	\$15,000	\$8,000	\$15,000			
Signage	28	EA	\$300	\$400	\$8,400	\$11,200			
Signalized Intersections	2	LS	\$125,000	\$250,000	\$250,000	\$500,000			
Wheelchair Ramps	18	EA	\$2,600	\$3,000	\$46,800	\$54,000			
Pedestrian Amenities							\$376,950	\$473,900	
24" box Trees	50	EA	\$1,820	\$1,820	\$91,000	\$91,000			Counted and Estimated from Aerial
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			Estimate based on square footage of landscape area and tree maintenance of costs over 1/2 mile of road.
Bench (6' Wide, includes installation)	12	EA	\$1,500	\$3,000	\$18,000	\$36,000			
Bike Racks (including installation)	12	EA	\$600	\$1,200	\$7,200	\$14,400			
Bus Concrete Pad	4	EA	\$6,500	\$6,500	\$26,000	\$26,000			
Bus Shelter	4	EA	\$5,000	\$10,000	\$20,000	\$40,000			
Brick Paving	7,500	SF	\$13	\$13	\$97,500	\$97,500			Estimated 2 areas at 250LF 15' sidewalks
Gateway Features/Public Art	1	EA	\$12,000	\$24,000	\$12,000	\$24,000			
Information kiosks	2	EA	\$1,500	\$3,000	\$3,000	\$6,000			
Newsracks	4	EA	\$4,000	\$6,000	\$16,000	\$24,000			Includes a bank of 4-6 newspaper racks.
Trash Cans	10	EA	\$800	\$1,500	\$8,000	\$15,000			Estimated 2 per block.
Tree Grates includes frame (4'x4')	50	EA	\$680	\$750	\$34,000	\$37,500			
Tree Guards (Powder Coated)	50	EA	\$325	\$670	\$16,250	\$33,500			
Tree Well	50	EA	\$500	\$500	\$25,000	\$25,000			
Subtotals:							\$1,004,150	\$1,565,300	
10% Mobilization cost:							\$100,415	\$156,530	
20% Contingency:							\$200,830	\$313,060	
15% Design Fee:							\$150,623	\$234,795	
TOTAL ANTICIPATED COST:							\$1,456,018	\$2,269,685	

***Cost Estimates based on 2005 prices
All items listed include installation costs.

SF Square Foot LS Lump Sum
EA Each LF Linear Foot

MTC Pedestrian Districts Study
UCSF Case Study Cost Estimate[illegible]

***Cost Estimates based on 2005 prices
All items listed include installation costs

SF Square Foot	LS Lump Sum
EA Each	LF Linear Foot

UCSF Case Study Cost Estimate

[illegible]

***Cost Estimates based on 2005 prices

SF Square Foot

EA Each

LS Lump Sum

LF Linear Foot

MTC Pedestrian Districts Study
UCSF Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Carl Street: 780 LF									
Pedestrian Infrastructure							\$56,800	\$67,200	
Crosswalk Typical Striping	400	LF	\$3	\$6	\$1,200	\$2,400			2 stripes vs. Ladder stripes
Signage	12	EA	\$300	\$400	\$3,600	\$4,800			Assumes new post is needed in sidewalk and installation
Wheelchair Ramps (w/ warning surface half domes)	20	EA	\$2,600	\$3,000	\$52,000	\$60,000			Includes demolition costs and repaving asphalt at cuts
Pedestrian Amenities							\$212,560	\$249,560	
24" box trees	58	EA	\$1,820	\$1,820	\$105,560	\$105,560			Counted from aerial
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			Estimate based on square footage of landscape area and tree maintenance of costs over 1/2 mile of road.
Bus Concrete Pad	6	EA	\$6,500	\$6,500	\$39,000	\$39,000			
Bus Shelter	6	EA	\$5,000	\$10,000	\$30,000	\$60,000			
Information kiosks	4	EA	\$1,500	\$3,000	\$6,000	\$12,000			
Tree Well	58	EA	\$500	\$500	\$29,000	\$29,000			Includes saw cut of 5' x 5' hole, 2.5 cy amended soil, and concrete demo and hauling
Subtotals:							\$269,360	\$316,760	
10% Mobilization cost:							\$26,936	\$31,676	
20% Contingency							\$53,872	\$63,352	
15% Design Fee							\$40,404	\$47,514	
TOTAL ANTICIPATED COST							\$390,572	\$459,302	

***Cost Estimates based on 2005 prices

SF Square Foot LS Lump Sum
EA Each LF Linear Foot

MTC Pedestrian Districts Study
UCSF Case Study Cost Estimate

Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Pedestrian Passages Through Building: 0 LF									
Pedestrian Infrastructure							\$9,000	\$12,000	
Signage (Directional)	30	EA	\$300	\$400	\$9,000	\$12,000			
Pedestrian Amenities							\$0	\$0	
High Speed Elevator for 2 floors	1	EA	\$30,000.00	\$30,000.00	\$0	\$0			Estimates \$15,000 per floor. Not included in cost estimates because non-standard.
Subtotals:							\$9,000	\$12,000	
10% Mobilization cost:							\$900	\$1,200	
20% Contingency:							\$1,800	\$2,400	
15% Design Fee:							\$1,350	\$1,800	
TOTAL ANTICIPATED COST							\$13,050	\$17,400	

***Cost Estimates based on 2005 prices
All items listed include installation costs

SF Square Foot I.S. Lump Sum
EA Each L.F. Linear Foot

		Low	High
Hacienda Business Park Case Study			
	13150 LF		
Willow Road		\$4,617,728	\$6,243,439
Owens Drive at W		\$249,763	\$322,661
BART Parking Lot		\$285,882	\$464,638
Chabot Canal Imp		\$1,595,290	\$1,931,545
TOTAL ESTIMATED COST		\$6,748,663	\$8,962,283
COST PER LINEAR SQUARE FOOT		\$513	\$682

MTC Pedestrian Districts Study
Hacienda Business Park Case Study Cost Estimate

Item	Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Willow Road through Park: 5800LF										
Pedestrian Infrastructure								\$1,977,600	\$2,857,800	
1.2	Audible Pedestrian Crossing Cues (Per Intersection)	4	EA	\$10,400	\$10,400	\$41,600	\$41,600			
1.3	Automatic Pedestrian Detection	4	EA	\$500	\$1,000	\$2,000	\$4,000			
1.4	Bollards	12	EA	\$500	\$750	\$6,000	\$9,000			
1.12	Crosswalk Countdowns	4	EA	\$1,500	\$1,500	\$6,000	\$6,000			
1.13	Crosswalk: Lighted Flashing	2	LS	\$100,000	\$120,000	\$200,000	\$240,000			
1.14	Crosswalk: Raised above grade	2	EA	\$5,000	\$5,000	\$10,000	\$10,000			
1.17	Landscaped Median	2,500	LF	\$200	\$400	\$500,000	\$1,000,000			
2.12	Pedestrian-Level Street Lights	160	EA	\$3,000	\$5,000	\$480,000	\$800,000			Estimate one every 30 LF both sides of street
1.18	Pedestrian Push Button Treatments	4	EA	\$1,500	\$1,500	\$5,200	\$5,200			
1.19	Pedestrian Refuge Island	2	EA	\$8,000	\$15,000	\$16,000	\$30,000			Assumes curb and median approximately 6' wide
1.22	Signage (Post and Standard Sign vs. High Visibility)	12	EA	\$300	\$400	\$3,600	\$4,800			
1.29	Widened Sidewalks	8,840	LF	\$80	\$80	\$707,200	\$707,200			Includes demolition cost for curb removal, replacement and concrete for 3 SF of sidewalk
Pedestrian Amenities								\$1,207,040	\$1,448,020	
2.0	24" box Trees	300	EA	\$1,820	\$1,820	\$546,000	\$546,000			Estimated one tree every 30 LF
2.2	Bench (6' Wide, includes installation)	38	EA	\$1,500	\$3,000	\$57,000	\$114,000			Estimate 2 every block
2.3	Bike Racks (including installation)	58	EA	\$600	\$1,200	\$34,800	\$69,600			6 per block
2.7	Crosswalk: Stamped Colored Concrete	11,700	SF	\$10	\$15	\$117,000	\$175,500			13 crossings at 12' wide 75LF each
2.8	Gateway Features/Public Art	2	EA	\$12,000	\$24,000	\$24,000	\$48,000			
2.9	Information kiosks	3	EA	\$1,500	\$3,000	\$4,500	\$9,000			Bart Signage and Info kiosk at three major intersections
2.13	Planting at Bulb-outs	2,400	SF	\$9	\$9	\$21,600	\$21,600			24 bulbouts with 100SF of planters
2.17	Trash Cans	58	EA	\$800	\$1,500	\$46,400	\$87,000			Estimate 6 per every 600LF (one every 200LF both sides of street)
2.18	Tree Grates includes frame (4'x4')	300	EA	\$680	\$750	\$204,000	\$225,000			
2.20	Tree Well	300	EA	\$500	\$500	\$150,000	\$150,000			
2.22	Planters (concrete with soil and plants)	58	EA	\$30.00	\$40.00	\$1,740	\$2,320			Estimate 6 per block
Subtotals:								\$3,184,640	\$4,305,820	
10% Mobilization cost:								\$318,464	\$430,582	
20% Contingency								\$636,928	\$861,164	
15% Design Fee								\$477,696	\$645,873	
TOTAL ANTICIPATED COST								\$4,617,728	\$6,243,439	

***Cost Estimates based on 2005 prices

SF Square Foot LS Lump Sum
EA Each LF Linear Foot

MTC Pedestrian Districts Study
Hacienda Business Park Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Owens Road: Intersection with Willows near BART Only 250 LF									
Pedestrian Infrastructure							\$108,400	\$131,600	
Audible Pedestrian Crossing Cues (Per Intersection)	4	EA	\$10,400	\$10,400	\$41,600	\$41,600			
Automatic Pedestrian Detection	4	EA	\$500	\$1,000	\$2,000	\$4,000			
Crosswalk Countdowns	4	EA	\$1,500	\$1,500	\$6,000	\$6,000			
Crosswalk -Raised Above Grade	4	EA	\$5,000	\$5,000	\$20,000	\$20,000			
Pedestrian-Level Street Lights	10	EA	\$3,000	\$5,000	\$30,000	\$50,000			Estimate one every 30 LF both sides of street
Pedestrian Push Button Treatments	4	EA	\$1,300	\$1,300	\$5,200	\$5,200			
Signage	12	EA	\$300	\$400	\$3,600	\$4,800			
Pedestrian Amenities							\$63,850	\$90,925	
24" box Trees	20	EA	\$1,820	\$1,820	\$36,400	\$36,400			Estimated one tree every 30 LF
Bench (6' Wide, includes installation)	4	EA	\$1,500	\$3,000	\$6,000	\$12,000			Estimate 2 every block
Bike Racks (including installation)	12	EA	\$600	\$1,200	\$7,200	\$14,400			6 per block
Crosswalk: Stamped Colored Concrete	75	SF	\$10	\$15	\$750	\$1,125			13 crossings at 12' wide 75LF each
Gateway Features/Public Art	1	EA	\$12,000	\$24,000	\$12,000	\$24,000			
Information kiosks	1	EA	\$1,500	\$3,000	\$1,500	\$3,000			Bart Signage and Info kiosk at three major intersections
Subtotals:							\$172,250	\$222,525	
10% Mobilization cost							\$17,225	\$22,253	
20% Contingency							\$34,450	\$44,505	
15% Design Fee							\$25,838	\$33,379	
TOTAL ANTICIPATED COST							\$249,763	\$322,661	

***Cost Estimates based on 2005 prices

SF Square Foot
EA Each

LS Lump Sum
LF Linear Foot

MTC Pedestrian Districts Study
Hacienda Business Park Case Study Cost Estimate

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***Cost Estimates based on 2005 prices

SF Square Foot
EA Each

LS Lump Sum
LF Linear Foot

MTC Pedestrian Districts Study
Hacienda Business Park Case Study Cost Estimate

Item	Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Chabot Canal through Park: 6500LF										
	Pedestrian Infrastructure							\$501,200	\$507,600	
1.1	Asphaltic Concrete	52,000	SF	\$9	\$9	\$468,000	\$468,000			Pathway on one side of canal 8' wide
1.22	Signage	24	EA	\$300	\$400	\$7,200	\$9,600			
1.28	Wheelchair Ramps	10	EA	\$2,600	\$3,000	\$26,000	\$30,000			Includes demolition costs and repaving asphalt at cuts.
	Pedestrian Amenities							\$599,000	\$824,500	
2.2	Bench (6' Wide, includes installation)	15	EA	\$1,500	\$3,000	\$22,500	\$45,000			
2.3	Bike Racks (including installation)	10	EA	\$600	\$1,200	\$6,000	\$12,000			
1.4	Bollards	40	EA	\$500	\$750	\$20,000	\$30,000			8 bollards at each intersection (4 per side)
2.7	Crosswalk: Stamped Colored Concrete	5,000	SF	\$10	\$15	\$50,000	\$75,000			Includes demo of existing asphaltic concrete and aggregate base.
2.8	Gateway Features (Public Art/Creek Overlooks)	5	EA	\$12,000	\$24,000	\$60,000	\$120,000			
2.12	Pedestrian Lights	44	EA	\$3,000	\$5,000	\$132,000	\$220,000			
2.13	Planting at path way	32,500	SF	\$9	\$9	\$292,500	\$292,500			Planted for 5' either side of path.
2.17	Trash Cans	20	EA	\$800	\$1,500	\$16,000	\$30,000			

Subtotals:	\$1,100,200	\$1,332,100
10% Mobilization cost:	\$110,020	\$133,210
20% Contingency:	\$220,040	\$266,420
15% Design Fee:	\$165,030	\$199,815

TOTAL ANTICIPATED COST								\$1,595,290	\$1,931,545	
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***Cost Estimates based on 2005 prices

SF Square Foot LS Lump Sum
EA Each LF Linear Foot